SESSION 1.6

MODEL 2070-4 POWER SUPPLY UNITS AND INTERNAL INTERFACE

- 2070-4 POWER SUPPLY UNITS CONSIST OF TWO MODELS 4A AND 4B
- INTERNAL INTERFACE CONSIST OF SERIAL BACKPLANE MOTHERBOARD

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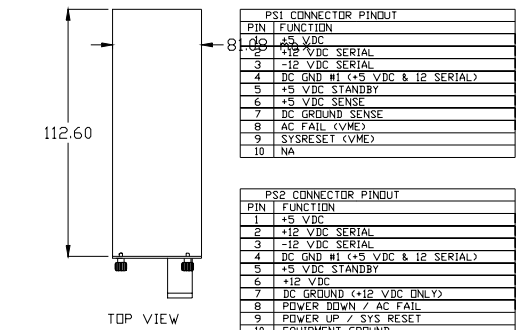
2070-4 UNIT POWER SUPPLIES 4A AND 4B

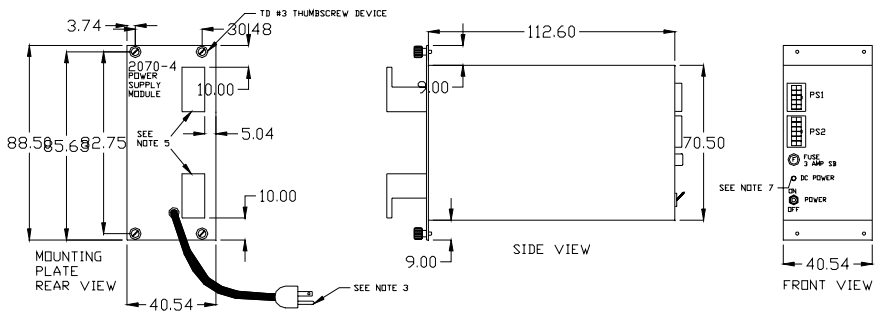
- **4A HAS A 10 A +5VDC POWER SUPPLY USED WHEN THE VME CAGE ASSEMBLY IS PRESENT.**
- **4B HAS AN 3.5A +5VDC POWER SUPPLY USED ON THE 2070 LITE CONTROLLER UNIT (NON VME).**
- **BOTH HAVE ADDITIONAL VOLTAGE OUTPUTS, +/-12 VDC COMM AT 0.5A AND +12VDC AT 1A, ISOLATION VOLTAGE FOR I/O 2B MODULE.**
- **+5VDC STANDBY POWER TO HOLD UP AT 600µA FOR A MINIMUM OF 600 MINUTES.**
- **POWER CONTROL CIRCUITRY TO PROVIDE SYSTEM POWER DOWN-POWER UP OPERATION.**
- **60 HZ LINESYNC**
- **HOLDOVER FOR 0.5 SECOND FOR 30 WATTS TO KEEP THE SYSTEM OPERATING DURING SHORT OUTAGES.**

4A AND 4B POWER SUPPLIES CONTINUED



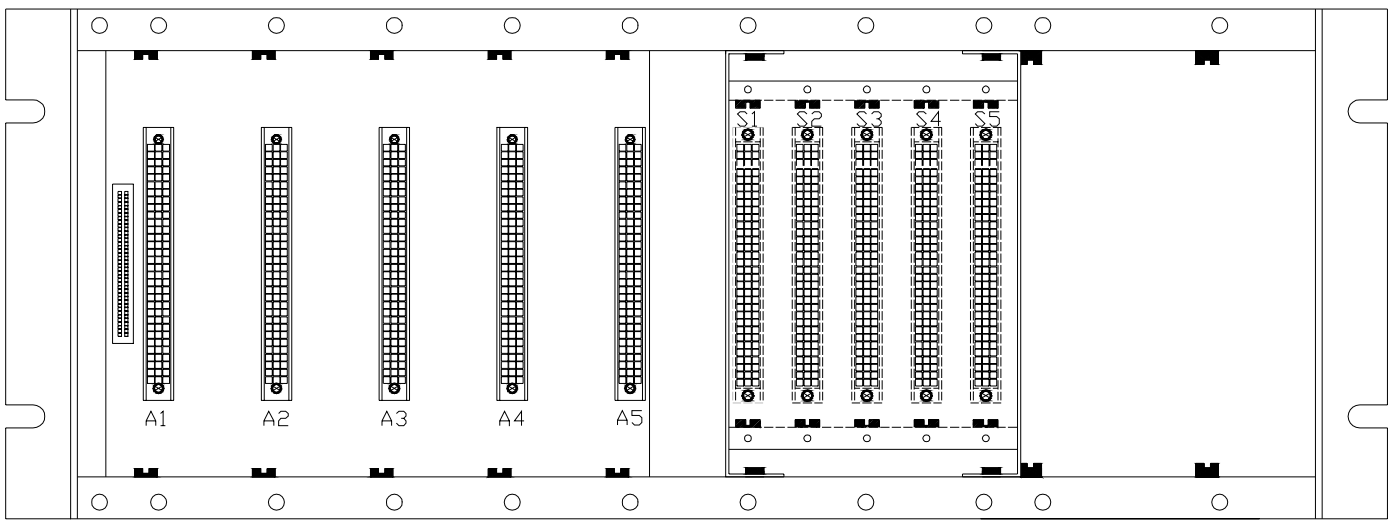
PS1 CONNECTOR PINOUT	
PIN	FUNCTION
1	+5 VDC
2	+12 VDC SERIAL
3	-12 VDC SERIAL
4	DC GND #1 (+5 VDC & 12 SERIAL)
5	+5 VDC STANDBY
6	+5 VDC SENSE
7	DC GROUND SENSE
8	AC FAIL (VME)
9	SYSRESET (VME)
10	NA

PS2 CONNECTOR PINOUT	
PIN	FUNCTION
1	+5 VDC
2	+12 VDC SERIAL
3	-12 VDC SERIAL
4	DC GND #1 (+5 VDC & 12 SERIAL)
5	+5 VDC STANDBY
6	+12 VDC
7	DC GROUND (+12 VDC ONLY)
8	POWER DOWN / AC FAIL
9	POWER UP / SYS RESET
10	EQUIPMENT GROUND
11	LINESYNC
12	NA



INTERNAL INTERFACE

- THE COMMUNICATIONS BACKPLANE CONSISTS OF 5 CONNECTORS.
- A1 REPLACES SERIAL PORTS 1 AND 2 WITH 3 AND 4
- A2 - A5 SUPPORT ALL SERIAL PORTS INCLUDING ENET



SERIAL CONTROL AND INTERFACE

- **THE SERIAL MOTHERBOARD CONSISTS OF 5 “DIN 96 PIN” CONNECTORS ARRANGED AS A1 - A5 AND A 40 PIN HEADER LABELED FP CONNECTOR.**
- **A2 - A5 ARE PARALLEL WIRED TO SUPPORT THE 6 SERIAL PORTS AND CONTROL SIGNALS AND ETHERNET NETWORK.**
- **A1 IS UNIQUE. IT SUPPORTS SERIAL PORTS 3 AND 4 AT THE SAME PIN LOCATIONS IN LIEU OF SERIAL PORTS 1 AND 2.**
- ***THE OBJECTIVE IS TO OPERATE MODEM MODULE IN EITHER SLOTS WITHOUT SPECIAL PIN SELECTION.***

BACKPLANE INTERCONNECT SYSTEM